

PATENT ABSTRACTS OF JAPAN

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(54) DRY TONER AND ITS PRODUCTION

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a dry toner excellent in powder flowability, low temp. fixability and anti-hot offsetting property and not requiring a producing process such as comminuting by incorporating particles formed by the extension reaction and/or crosslinking reaction of an isocyanato group-contg. prepolymer with amines in an aq. medium.

SOLUTION: The dry toner contains a binder component comprising resin particles formed by the extension reaction and/or crosslinking reaction of an isocyanato group-contg. prepolymer with amines in an aq. medium. The wt. average mol.wt. of the prepolymer is $\geq 10,000$, preferably 20,000-10,000,000, especially preferably 30,000-1,000,000 from the viewpoint of anti-hot offsetting property. The isocyanato group-contg. prepolymer is, e.g. an isocyanato group-contg. polyester prepolymer or an isocyanato group-contg. epoxy resin prepolymer. The amines are, e.g. compds. obtd. by blocking polyamines with a releasable compd.

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